In The Claims:

1. (Currently Amended) A method for creating a narrow linewidth hybrid semiconductor laser comprising:

coupling a semiconductor gain chip to a single external feedback element, said external feedback element comprising a ring resonator and a Bragg grating in a single element.

2. (Canceled)

3. (Canceled)

4. (Canceled)

5. (Previously Presented) The method of claim 1 wherein said external feedback element is coupled to a waveguide.

6. (Previously Presented) The method of claim 5 wherein said waveguide is made of silicon-oxide and silicon-oxinitride.

7. (Original) The method of claim 1 wherein said ring resonator is based on plasma enhanced chemical vapor deposition silicon-oxide/silicon-oxinitride waveguide technology.

8. (Original) The method of claim 1 wherein said ring resonator further comprises a waveguide ring and two straight waveguide sections.

9. (Original) The method of claim 8 wherein said waveguide ring and said two straight waveguide sections are coupled through evanescent wave interaction.

10. (Canceled).

11. (Canceled).

12. (Currently Amended) A narrow linewidth hybrid semiconductor laser apparatus comprising:

semiconductor gain chip coupled to a single external feedback element, said external feedback element comprising a ring resonator and a Bragg grating in a single element.

13. (Canceled)

14. (Canceled)

15. (Canceled)

16. (Previously Presented) The apparatus of claim 12 wherein said external feedback element is coupled to a waveguide.

17. (Previously Presented) The apparatus of claim 16 wherein said waveguide is made of silicon-oxide and silicon-oxinitride.

18. (Original) The apparatus of claim 12 wherein said ring resonator is based on plasma enhanced chemical vapor deposition silicon-oxide/silicon-oxinitride waveguide.

19. (Original) The apparatus of claim 12 wherein said ring resonator further comprises a waveguide ring and two straight waveguide sections.

20. (Original) The apparatus of claim 19 wherein said waveguide ring and said two straight waveguide sections are coupled through evanescent wave interaction.

21. (Canceled)

22. (Canceled)

23. (New) A method for creating a narrow linewidth hybrid semiconductor laser comprising:
coupling a semiconductor gain chip to a single external feedback element, said external feedback element comprising a ring resonator and a Bragg grating; and
coupling said external feedback element to a waveguide, wherein said waveguide is made of silicon-oxide and silicon-oxinitride.

24. (New) A narrow linewidth hybrid semiconductor laser apparatus comprising:
semiconductor gain chip coupled to a single external feedback element, said external feedback element comprising a ring resonator and a Bragg grating; and
coupling said external feedback element to a waveguide, wherein said waveguide is made of silicon-oxide and silicon-oxinitride.